

IN THE CLAIMS

8. (twice amended) A receiver circuit arranged in a receiving unit of multiplex radio equipment, comprising:

an identifying circuit for identifying a signal at a predetermined identification level, said signal being obtained by demodulating a multilevel orthogonal modulated signal;

a clock regenerating circuit for regenerating a signal identification clock for said identifying circuit to supply ^{signal identification} said clock to said identifying circuit;

an equalizing circuit for subjecting said signal obtained by demodulating the multilevel orthogonal modulated signal to an equalizing process; and

a clock phase detecting unit for detecting a phase component of said signal identification clock based on input and output signals of said equalizing circuit and then for supplying said phase component to said clock regenerating circuit;

wherein said clock phase detecting unit comprises:

an error detecting unit for detecting an input signal to output signal error of said [equilizing] equalizing circuit;

a signal inclination detecting unit for detecting the inclination ^{of} said demodulated signal;

a clock phase calculating unit for detecting the phase component of said signal identification clock by calculating based on the respective outputs from said error detecting unit and said signal inclination detecting unit;

a specific signal judging unit for judging whether a specific signal exists; and

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a gating unit for [producing] producing the phase component of said signal identification clock obtained by said clock phase calculating unit when said specific signal judging unit judges that said specific signal exists.

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14. **(twice amended)** A receiver circuit arranged in a receiving unit of multiplex radio equipment, according to claim 8, wherein said specific signal judging unit includes plural signal judging units that judge plural kinds of specific signals, and further comprising a selecting unit arranged between said [specific signal judging unit] plural signal judging units and said [gate] gating unit, for selecting decision results from said plural signal judging units.

15. – 46. **(canceled)**